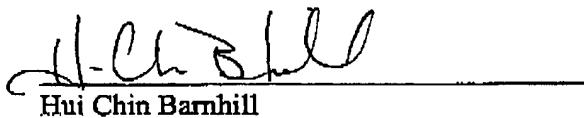


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CENTRAL FAX CENTER**CERTIFICATE OF FACSIMILE TRANSMISSION
UNDER 37 CFR §1.8****AUG 08 2005**

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted on the date indicated below via facsimile to the United States Patent and Trademark Office, facsimile number (571)-273-8300.

Date: August 8, 2005
Hui Chin Barnhill

In re application of: Pan

Confirmation No.: TBA

U.S. Serial Number: 10/789,660

Art Unit: 1763

Filing Date: April 9, 2003

Examiner: Arancibia, Maureen

Our Reference Number: 252016-2960

Title: Pre-Clean Chamber with Wafer Heating Apparatus and Method of Use

**Certificate under 37 CFR 3.73(b)
Power of Attorney by Assignee of Entire Interest**

Total Pages Transmitted (including cover sheet) - 5

AUG 08 2005**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

Application Serial No.: 10/789,660

Filed: February 27, 2004

For: PRE-CLEAN CHAMBER WITH WAFER HEATING APPARATUS AND METHOD OF USE

Patent No.: Unassigned

Issue Date: Unassigned

Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450

**CERTIFICATE UNDER 37 C.F.R. §3.73(b)
ESTABLISHING RIGHT OF ASSIGNEE TO TAKE ACTION**

1. The assignee of the entire right, title and interest hereby seeks to take action in the PTO in this matter.

IDENTIFICATION OF ASSIGNEE

2. The assignee of this matter is:

TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.

No. 8, Li-Hsin Rd. 6

Science-Based Industrial Park
Hsin-Chu 300-77, Taiwan, R.O.C.**PERSON AUTHORIZED TO SIGN**

3. Daniel R. McClure
Attorney for Assignee

4. A chain of title from the inventor(s) to the current assignee is shown below:

a. From:

To: Taiwan Semiconductor Manufacturing Co., Ltd.
Recorded in PTO: Reel: 015034 Frame: 0630

DECLARATIONS

5. I, the undersigned, have reviewed all the documents in the chain of title of the

application
 patent

matter identified above and, to the best of my knowledge and belief, title is in the assignee identified above.

6. I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

7. I, the person signing below, aver that I am empowered to sign this statement on behalf of the assignee.



Daniel R. McClure; Reg. No. 38,962

Tel. No. 770-933-9500

Customer No.: 24504

THOMAS, KAYDEN, HORSTEMEYER
& RISLEY, L.L.P.
100 Galleria Parkway, Suite 1750
Atlanta, Georgia 30339-5948

Docket No. 252016-2960

Certificate of Mailing

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on August 8, 2005.



(Signature - Hui Chin Barnhill)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application:

Application No.: 10/789,660

Filed: February 27, 2004

Title: PRE-CLEAN CHAMBER WITH WAFER HEATING APPARATUS AND METHOD
OF USE

Reel/frame No.:

Commissioner for patents

Washington, D.C. 20231

POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST
(REVOCATION OF PRIOR POWERS)

REVOCATION OF PRIOR POWERS OF ATTORNEY

the power of attorney previously given is hereby revoked, and

NEW POWER OF ATTORNEY

the following attorneys/agents are hereby appointed to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: I hereby appoint all attorneys of Thomas, Kayden, Horstemeyer & Risley, LLP, who are listed under the USPTO Customer Number shown below as the attorneys to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith, recognizing that the specific attorneys listed under that Customer Number may be changed from time to time at the sole discretion of Thomas, Kayden, Horstemeyer & Risley, LLP, and request that all correspondence about the application be addressed to the address filed under the same USPTO Customer Number:

000047390

Patent Trademark Office

Please direct all correspondence and telephone calls to:

Daniel R. McClure, Reg. No. 38,962
THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP.
100 Galleria Parkway, Suite 1750
Atlanta, Georgia 30339
770-933-9500

ASSIGNEE OF ENTIRE INTEREST
TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.
8, Li-Hsin Rd. 6
Hsinchu Science Park
Hsinchu, Taiwan 300-77, R.O.C.

TSMC2003-0776/0503-A30494US

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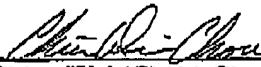
THOMAS, KAYDEN
FAX NO.

PAGE 05
P. 04

ASSIGNEE CERTIFICATION

The certification under 37 C.F.R. §3.73(b) establishing the right of assignee to take action is attached hereto along with documentation evidencing same. Further, in my official position with Taiwan Semiconductor Manufacturing Company, Ltd., I am authorized to sign documents and otherwise act on its behalf in connection with the management and handling of patent applications and other intellectual property matters.

Date: July 19, 2005



Chien-Wei (Chris) Chou
Director-Intellectual Property Division

TSMC2003-0776/D503-A30494US